



## Chinook Ventures/Millennium Bulk Materials

- ▶ Location: Longview, Cowlitz County
- ▶ Timeline: February 16, 2009 - July 27, 2010
- ▶ Regional Assistance Lead: Alan Bogner

In 2004, Chinook Ventures bought buildings in Longview on the site of the former Alcoa/Reynolds Aluminum plant out of bankruptcy court. The site was contaminated and Chinook planned to clean up the 416-acre site and build a private port. However, from 2004 through early 2009, Chinook Ventures violated numerous human health and environmental requirements. Given the difficult economic times, the Department of Ecology involved ORA in assisting the facility to come into environmental compliance.

ORA convened a cross-agency/cross-program team to help work through a multitude of issues, and Chinook Ventures partnered with the team to complete regulatory requirements. In 2010, Chinook Ventures sold their assets to Millennium Bulk Logistics, and they are continuing the work to develop the site into a port facility.

## Energy Northwest/Port of Kalama

- ▶ Location: Kalama, Cowlitz County
- ▶ Timeline: April 21, 2010 - Ongoing
- ▶ Regional Assistance Lead: Alan Bogner

ORA assisted Energy Northwest, located at the Port of Kalama, with two major projects:

- A 346 megawatt natural gas fired combined turbine plant on 16.63 acres.
- A bulk handling facility adjacent to the Columbia River for the export of a variety of products.

The bulk handling facility would receive commodities via freight rail, temporarily store material onsite, and convey it to cargo ships through a new marine cargo handling facility and expanded berth.

## Nippon Paper

- ▶ Location: Port Angeles, Clallam County
- ▶ Timeline: February 19, 2010 - Ongoing
- ▶ Regional Assistance Lead: Alan Bogner

Nippon Paper in Port Angeles is replacing an existing oil boiler with a biomass boiler to power the plant and generate 20 megawatts of renewable energy for local public utility districts. This electricity output is greater than the 19 megawatts of energy from the two Elwha Dams. Since 2000, Nippon has reduced their fossil fuel usage by 88 percent, and with this project, they will reduce oil usage to virtually zero. The company's greenhouse gas emissions are already below the 1990 baseline proposed at the Kyoto Climate Change Conference in 1997. With the new emission control devices proposed for this boiler, the mill will dramatically reduce particulate releases and open slash burn emissions. The project is expected to create over 100 construction jobs and 20 permanent jobs.

The project was funded by 2009 American Recovery and Reinvestment Act (ARRA), and ORA assisted with cross-agency, cross-program coordination in association with the WA Department of Commerce and U.S. Department of Energy. This project also served as a WA Department of Natural Resources pilot. Issues included permitting for air, water quality, and shorelines.



## Port Townsend Paper Company (PTPC)

- ▶ Location: Port Townsend, Jefferson County
- ▶ Timeline: November 18, 2009 - Ongoing
- ▶ Regional Assistance Lead: Alan Bogner

The PTPC is adding a new steam turbine generator, to be powered by the mill boiler and recovery furnace, to their facility in Port Townsend. The cogeneration project will produce green energy for sale to the power distribution grid. The mill boiler will be upgraded to increase firing efficiency with biomass fuel and emissions control equipment will be upgraded. After passing through the turbine, the remaining steam will be used to support pulp and paper mill operations. The steam turbine will generate up to 25 megawatts of electricity, which is greater than the 19 megawatts produced by the two Elwha Dams combined.

The project received 2009 American Recovery and Reinvestment Act (ARRA) funds, and ORA assisted with cross-agency, cross-program coordination in association with the WA Department of Commerce and U.S. Department of Energy.

## Silver Cloud Hotel Heat Pump

- ▶ Location: Tacoma, Pierce County
- ▶ Timeline: October 5, 2010 - Ongoing
- ▶ Regional Assistance Lead: Zelma Zieman

The heat pump was installed when the hotel was built. Over the years, the system has been modified to include a Puget Sound marine water intake and water discharge to ground through a series of underground tanks located behind a site seawall. Several additional modifications have been proposed by the hotel in order to minimize impacts due to discharge water temperature. Permit requirements for the system are complicated due to the unique design. ORA is working with the Ecology Water Quality section to determine what approach they will implement for this situation as well as future applications. The system is used to heat and cool the hotel and provide approximately 30% reduction in energy consumption when compared to electric or natural gas alternatives.

